

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claims 1-39 (cancelled)

Claim 40 (previously presented): An apparatus for transmission of a calling subscriber number identification received at a home Public Land Mobile Network ("PLMN") or at an InterWorking Function ("IWF"), comprising:

first means for interrogating at least one entity selected from GSM network entities, UMTS network entities, and Inter-Working Functions by at least one interrogating operation selected from GSM MAP operations, UMTS MAP operations, and combinations thereof in order to retrieve a routing number and reach a destination subscriber who is a roaming subscriber roaming in a visited PLMN and set up the call;

second means for extracting the calling subscriber number identification from a previously received signalling message to be further sent in an interrogating operation selected from GSM MAP operations, UMTS MAP operations, and combinations thereof; and

third means for including the calling subscriber number identification extracted by the second means in the interrogating GSM/UMTS MAP operation in order to retrieve a routing number and reach such a roaming subscriber and set up the call, presenting the calling subscriber number identification.

Claim 41 (previously presented): The apparatus of claim 40, further comprising means for storing on a per subscriber and per call basis, at a GSM entity or a UMTS entity, the calling subscriber number identification received in an interrogating GSM/UMTS MAP operation for further delivery to the destination subscriber.

Claim 42 (previously presented): The apparatus of claim 40, wherein the

interrogating GSM/UMTS MAP operation is a MAP operation: "Send Routing Information", and the MAP operation includes the calling subscriber number identification.

Claim 43 (previously presented): The apparatus of claim 40, wherein the interrogating GSM/UMTS MAP operation is a MAP operation: "Provide Roaming Number", and the MAP operation includes the calling subscriber number identification.

Claim 44 (currently amended): The apparatus of claim 40, wherein the home PLMN is one of a GSM network and a UMTS network that include a home GMSC; a visited PLMN where the home subscriber is roaming is neither a GSM network nor a UMTS network; the home GMSC interrogates a GSM/UMTS home location register ("HLR") by a MAP operation: "Send Routing Information" that includes the calling subscriber number identification; and the GSM/UMTS HLR interrogates an ~~Inter-Working~~ Inter-Working Function used in intersystem roaming by a MAP operation: "Provide Roaming Number" that also includes the calling subscriber number identification.

Claim 45 (previously presented): The apparatus of claim 40, wherein the visited PLMN where the home subscriber is roaming is one of a GSM network and a UMTS network; the home PLMN is neither a GSM network nor a UMTS network; and an Inter-Working Function used in intersystem roaming interrogates a visited mobile switching center/visitor location register ("MSCNLR") by a MAP operation: "Provide Roaming Number" that includes the calling subscriber number identification.

Claim 46 (previously presented): The apparatus of claim 40, wherein the home PLMN is one of a GSM network and a UMTS network that include a home GMSC; the visited PLMN where the home subscriber is roaming is also one of a GSM network and a UMTS network; the home GMSC interrogates a GSM/UMTS home location register ("HLR") by a MAP operation: "Send Routing Information" that includes the calling subscriber number identification; and the GSM/UMTS HLR

interrogates a mobile switching center/visitor location register ("MSCNLR") where the home subscriber is roaming by a MAP operation: "Provide Roaming Number" that also includes the calling subscriber number identification.

Claim 47 (previously presented): The apparatus of claim 40, wherein the calling subscriber number identification is included as a new parameter of a predetermined type in a MAP operation: "Send Routing Information".

Claim 48 (previously presented): The apparatus of claim 40, wherein the calling subscriber number identification is included in an Extension Container field of a MAP operation: "Send Routing Information".

Claim 49 (previously presented): The apparatus of claim 40, wherein the calling subscriber number identification is included as a new parameter of a predetermined type in a MAP operation: "Provide Roaming Number".

Claim 50 (previously presented): The apparatus of claim 40, wherein the calling subscriber number identification is included in an Extension Container field of a MAP operation: "Provide Roaming Number".

Claim 51 (new): A method of transmitting a calling subscriber number identification received at a home Gateway Mobile Switching Centre ("GMSC") of a home Public Land Mobile Network ("PLMN") along with an incoming call towards a destination subscriber who is a roaming subscriber in a visited PLMN and who is one of a called subscriber and a forwarded-to subscriber, wherein the home PLMN is a GSM/UMTS network and the visited PLMN is a non-GSM/UMTS network, the method comprising the steps of:

extracting, at the home GMSC, the received calling subscriber number identification;

interrogating, from the home GMSC to a Home Location Register ("HLR") in the home PLMN, with a first interrogating GSM/UMTS MAP operation including the extracted calling subscriber number identification;

forwarding, from the HLR in the home PLMN towards an Inter-Working Function ("IWF") used in intersystem roaming, a second interrogating GSM/UMTS MAP operation including the received calling subscriber number identification; and including the received calling subscriber number identification in an interrogating non-GSM/UMTS MAP operation to be submitted from the IWF towards a visited Mobile Switching Centre ("MSC/VLR") in the visited PLMN where the destination subscriber is roaming.

Claim 52 (new): The method of claim 51, wherein the interrogating non-GSM/UMTS MAP operation for submitting the calling subscriber number identification is a MAP operation: "Routing Request".

Claim 53 (new): The method of claim 51, wherein the calling subscriber number identification is included in an Extension Container field of an interrogating GSM/UMTS MAP operation.

Claim 54 (new): The method of claim 51, wherein the calling subscriber number identification is included as a new parameter of specific type in an interrogating GSM/UMTS MAP operation.

Claim 55 (new): The method of claim 51, wherein the first interrogating GSM/UMTS MAP operation for submitting the calling subscriber number identification is a MAP operation: "Send Routing Information".

Claim 56 (new): The method of claim 51, wherein the second interrogating GSM/UMTS MAP operation for submitting the calling subscriber number identification is a MAP operation: "Provide Roaming Number".

Claim 57 (new): A method of transmitting a calling subscriber number identification received at a home Gateway Mobile Switching Centre ("GMSC") of a home Public Land Mobile Network ("PLMN") along with an incoming call towards a destination subscriber who is a roaming subscriber in a visited PLMN and who is one

of a called subscriber and a forwarded-to subscriber, wherein the home PLMN is a non-GSM/UMTS network and the visited PLMN is a GSM/UMTS network, the method comprising the steps of:

extracting, at the home GMSC, the received calling subscriber number identification;

interrogating, from the home GMSC to a Home Location Register ("HLR") in the home PLMN, with a first interrogating non-GSM/UMTS MAP operation including the extracted calling subscriber number identification;

forwarding, from the HLR in the home PLMN towards an Inter-Working Function ("IWF") used in intersystem roaming, a second interrogating non-GSM/UMTS MAP operation including the received calling subscriber number identification; and

including the received calling subscriber number identification in an interrogating GSM/UMTS MAP operation to be submitted from the IWF towards a visited Mobile Switching Centre ("MSC/VLR") in the visited PLMN where the destination subscriber is roaming.

Claim 58 (new): The method of claim 57, wherein the second interrogating non-GSM/UMTS MAP operation for submitting the calling subscriber number identification is a MAP operation: "Routing Request".

Claim 59 (new): The method of claim 57, wherein the calling subscriber number identification is included in an Extension Container field of the interrogating GSM/UMTS MAP operation.

Claim 60 (new): The method of claim 57, wherein the calling subscriber number identification is included as a new parameter of specific type in the interrogating GSM/UMTS MAP operation.

Claim 61 (new): The method of claim 57, wherein the interrogating GSM/UMTS MAP operation for submitting the calling subscriber number identification is a MAP operation: "Provide Roaming Number".

Claim 62 (new): An apparatus for transmission of a calling subscriber number identification received at a home Public Land Mobile Network ("PLMN") towards a destination subscriber who is roaming in a visited PLMN, wherein the home PLMN is a GSM/UMTS network and the visited PLMN is a non-GSM/UMTS network, the apparatus comprising:

means for extracting the calling subscriber number identification from a signalling message received at a home Gateway Mobile Switching Centre ("GMSC") of the home PLMN;

means for interrogating, from the home GMSC to a Home Location Register ("HLR") in the home PLMN, with a first interrogating GSM/UMTS MAP operation including the extracted calling subscriber number identification;

means for forwarding, from the HLR in the home PLMN towards an Inter-Working Function ("IWF") used in intersystem roaming, a second interrogating GSM/UMTS MAP operation that includes the received calling subscriber number identification; and

means for including the received calling subscriber number identification in an interrogating non-GSM/UMTS MAP operation to be submitted from the IWF towards a visited Mobile Switching Centre ("MSC/VLR") in the visited PLMN where the destination subscriber is roaming.

Claim 63 (new): The apparatus of claim 62, wherein the interrogating non-GSM/UMTS MAP operation for submitting the calling subscriber number identification is a MAP operation: "Routing Request".

Claim 64 (new): The apparatus of claim 62, wherein the calling subscriber number identification is included in an Extension Container field of an interrogating GSM/UMTS MAP operation.

Claim 65 (new): The apparatus of claim 62, wherein the calling subscriber number identification is included as a new parameter of specific type in an interrogating GSM/UMTS MAP operation.

Claim 66 (new): The apparatus of claim 62, wherein the first interrogating GSM/UMTS MAP operation for submitting the calling subscriber number identification is a MAP operation: "Send Routing Information".

Claim 67 (new): The apparatus of claim 62, wherein the second interrogating GSM/UMTS MAP operation for submitting the calling subscriber number identification is a MAP operation: "Provide Roaming Number".

Claim 68 (new): An apparatus for transmission of a calling subscriber number identification received at a home Public Land Mobile Network ("PLMN") towards a destination subscriber who is roaming in a visited Public Land Mobile Network, wherein the home PLMN is a non-GSM/UMTS network and the visited PLMN is a GSM/UMTS network, the apparatus comprising

means for extracting the calling subscriber number identification from a signalling message received at a home Gateway Mobile Switching Centre ("GMSC") of the home PLMN;

means for interrogating, from the home GMSC to a Home Location Register ("HLR") in the home PLMN, with a first interrogating non-GSM/UMTS MAP operation including the extracted calling subscriber number identification;

means for forwarding, from the HLR in the home PLMN towards an Inter-Working Function ("IWF") used in intersystem roaming, a second interrogating non-GSM/UMTS MAP operation that includes the received calling subscriber number identification; and

means for including the received calling subscriber number identification in an interrogating GSM/UMTS MAP operation to be submitted from the IWF towards a visited Mobile Switching Centre ("MSC/VLR") in the visited PLMN where the destination subscriber is roaming.

Claim 69 (new): The apparatus of claim 68, wherein the second interrogating non-GSM/UMTS MAP operation for submitting the calling subscriber number identification is a MAP operation: "Routing Request".

Claim 70 (new): The apparatus of claim 68, wherein the calling subscriber number identification is included in an Extension Container field of the interrogating GSM/UMTS MAP operation.

Claim 71 (new): The apparatus of claim 68, wherein the calling subscriber number identification is included as a new parameter of specific type in the interrogating GSM/UMTS MAP operation.

Claim 72 (new): The apparatus of claim 68, wherein the interrogating GSM/UMTS MAP operation for submitting the calling subscriber number identification is a MAP operation: "Provide Roaming Number".